Manitoba Monthly Communicable Disease Report
Reported up to January 31, 2009

Highlights:

1. **Antimicrobial Resistant Organisms**
   Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 67% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during January 2009.

2. **Sexually Transmitted Infections (STI) & Blood-Borne Pathogens (BBP)**
   There were 713 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in January 2009:
   - 586 reported cases of chlamydia (Ct) only
   - 69 reported cases of gonorrhoea (GC) only
   - 56 reported co-infections of Ct and GC and
   - 2 reported cases of syphilis

   Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 45% of all reported chlamydia cases in the province.

   In January 2009, there were no cases of Hepatitis B virus (HBV), 33 cases of Hepatitis C virus (HCV) and14 cases of HIV newly reported in Manitoba.

3. **Other Communicable Diseases**
The number of reported cases in January 2009 was within the statistically expected range for these reported communicable diseases with the exception of the following diseases:

   - Methicillin-resistant *Staphylococcus aureus* (MRSA) – 209 isolates reported, less than 208 expected in an average month
   - *Neisseria meningitidis* (in a sterile site other than blood or brain fluid) – 1 positive lab confirmed case reported; less than one expected in an average month

   The expected number of cases and range is statistically based on the average number of reported cases during December, January and February, 2003-2009.

Explanatory Notes

General:
Each monthly communicable disease report includes the number of cases of notifiable communicable diseases reported by lab or health provider during each individual month. Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used

will be the specimen collection date. Some discrepancy of numbers may be based on reporting delays.

The observed numbers of cases are compared to the statistically expected range for each reportable communicable disease. This involves comparing the current month's case counts to the average case counts for the same month, one month subsequent and one month prior for the previous five years. These same months over the five years are used to determine the expected range of cases using the statistical calculation of standard deviation. Using this specific monthly pattern allows for adjustment within the statistics for both seasonality and cyclical disease patterns.

The year-to-date case counts are based on the calendar year.

The disease data reported in the monthly report has not been analyzed for severity or associated deaths at this time.

Disease specific information:

Methicillin-resistant *Staphylococcus aureus* (MRSA) positive results within Manitoba include both individuals who are symptomatic of infection and colonized individuals who have no symptoms and are mostly diagnosed during admission screening activities at facilities. If facilities increase their screening activities, it would usually result in a rise in colonized MRSA cases.

A new case of Hepatitis C Virus (HCV) infection is defined as a first positive test for an identifiable individual.

A new case of Human Immunodeficiency Virus (HIV) infection is defined as a positive test with a unique code that has not been previously linked to a positive test result in Manitoba. Positive HIV tests included in this month's statistics include both nominal and non-nominal testing results.

SUMMARY OF COMMUNICABLE DISEASE FOR January 2009

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	4	1	3	0-6	4	1
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-2		
005.8	B. CEREUS			0	0-0		
320.1	BAC. MENINGITIS - PNEUM		1	0	0-1		1
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	12	10		***	12	10
116.0	BLASTOMYCOSIS		1		***		1
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	14	19	13	6-20	14	19
558.2	CLOSTRIDIUM DIFFICILE	81	80		***	81	80
046.1	CREUTZFELD-JACOB DISEASE		1		***		1
007.8	CRYPTOSPORIDIOSIS	3	3	1	0-4	3	3
061.0	DENGUE FEVER	1		0	0-1	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		
032	DIPHTHERIA CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1		
008.0	E. COLI-VEROTOXIGENIC	3	3	2	0-6	3	3
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	8	3	8	1-15	8	3
320.0	H.INFLUENZAE (CSF)			0	0-1		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
041.59	HAEM. INFLUENZAE (non-B)	2	1		***	2	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A	1		1	0-3	1	
070.3	HEPATITIS B			0	0-1		
070.51	HEPATITIS C	23	33	30	12-48	23	33
487.1A	INFLUENZA A	13	1		***	13	1
487.1B	INFLUENZA B	5	1		***	5	1
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES	1		0	0-1	1	
088.81	LYME DISEASE			0	0-1		
084	MALARIA	2	1	1	0-3	2	1
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD	1		0	0-1	1	
B95.6	MRSA	189	209	116	25-207	189	209
072.9	MUMPS		1	0	0-1		1
036.89	N.MENINGITIDIS OTHER		1	0	0-0		1
728.86	NECROTIZING FASCIITIS		2	1	0-4		2
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1	1	4	0-12	1	1
038.2	PNEUM. SEPTICEMIA	11	13	8	2-14	11	13
073.9	PSITTACOSIS			0	0-0		

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2008	2009	Expected*	Ex. Range**	2008	2009
083.0	Q FEVER			0	0-1		
056.9	RUBELLA			0	0-0		
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER			0	0-1		
003.0	SALMONELLA	23	20	15	1-29	23	20
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS	2	4	2	0-5	2	4
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***		
481.9	STREP PNEUMONIA - PR			0	0-0		
041.1	STREP PYOGENES - OTHER STER	2	9		***	2	9
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES		2	1	0-5		2
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-0		
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	2	2	2	1-4	2	2
010	TUBERCULOSIS - PRIM.		1	2	1-3		1
011	TUBERCULOSIS - RESP.	5	3	6	1-12	5	3
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID		1	0	0-0		1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	5	6		***	5	6
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROME				***		
008.44	YERSINIA ENTEROCOLITICA			1	0-3		
		414	**434**			**414**	**434**

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR January 2009

ICD9	Disease Name	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing age/gendr	Total
		F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		
006.9	AMEBIASIS																		1										1
320.1	BAC. MENINGITIS - PNEUM																						1						1
038.0	BETA STREP SEPTICEMIA							1				1				3			1		2		2						10
116.0	BLASTOMYCOSIS																1												1
008.43	CAMPYLOBACTER		1	2			1				2	1		2	1		2	1	2		2				1	1			19
558.2	CLOSTRIDIUM DIFFICILE			1							1	1		1		2	1	1	2	5	5	6	13	8	8	18	7		80
046.1	CREUTZFELD JACOB DISEASE																			1									1
007.8	CRYPTOSPORIDIOSIS					1	1									1													3
008.0	E. COLI 0157											1			1		1												3
007.1	GIARDIA LAMBLIA			1	2																								3
041.59	HAEM. INFLUENZAE (non-B)	1																											1
070.51	HEPATITIS C											4	3	1	1	1	6	3	5	4	2	1	1	1					33
487.1A	INFLUENZA A															1													1
487.1B	INFLUENZA B	1																											1
084	MALARIA														1														1
B95.6	MRSA	5	5	12	7	4	4	4	6	6	3	10	5	6	6	9	9	8	7	7	9	13	10	11	13	16	14		209
072.9	MUMPS														1														1
728.86	NECROTIZING FASCIITIS																			2									2
036.89	NEISSERIA MGTS(0ther)																										1		1
033.0	PERTUSSIS		1																										1
038.2	PNEUM. SEPTICEMIA		1				1	1			1		1			1			1	2	1				1		2		13
003.0	SALMONELLA	1	1	2	1		1	1					2	1		1	1	1	1	1	1	3			1				20
004	SHIGELLOSIS									1			1			1	1												4
041.1	STREP PYOGENES - OTHER ST			1												1			4	1				1	1				9
127.2	STRONGYLOIDIASIS																						1	1					2
013	TUBERCULOSIS - NONRESP.																	1			1								2

ICD9	Disease Name	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing age/gendr	Total
		F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		
010	TUBERCULOSIS - PRIM.			1																									1
011	TUBERCULOSIS - RESP.									1						2													3
002.0	TYPHOID																			1									1
B96.8	VANCOMYCIN RES. ENTER.																					1		1	2	1	1		6
		8	9	20	10	5	8	7	6	8	7	18	12	11	11	21	24	15	24	24	23	24	28	23	27	36	25		434

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR January 2009

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
006.9	AMEBIASIS										1												1
320.1	BAC. MENINGITIS - PNEUM	1																					1
038.0	BETA STREP SEPTICEMIA	5			1		1						2		1								10
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	8	4				5				1		1										19
558.2	CLOSTRIDIUM DIFFICILE	46	6		7		6	1	3		4		4		1			2					80
046.1	CREUTZFELD JACOB DISEAS E	1																					1
007.8	CRYPTOSPORIDIOSIS	1					2																3
008.0	E. COLI 0157		1		1		1																3
007.1	GIARDIA LAMBLIA	1																1	1				3
041.59	HAEM. INFLUENZAE (non-B)										1												1
070.51	HEPATITIS C	21	1		1		1		1		1	1	2		1		1	1			1		33
487.1A	INFLUENZA A				1																		1
487.1B	INFLUENZA B										1												1
084	MALARIA	1																					1
B95.6	MRSA	102	3	2	2		4		6		7		1		5	1	7	41	27		1		209
072.9	MUMPS				1																		1
728.86	NECROTIZING FASCIITIS	2																					2
036.89	NEISSERIA MGTS(Other)	1																					1
033.0	PERTUSSIS										1												1
038.2	PNEUM. SEPTICEMIA	7					1				3							2					13
003.0	SALMONELLA	14					1				2				2				1				20
004	SHIGELLOSIS				1						1						1	1					4
041.1	STREP PYOGENES - OTHER ST.	8																	1				9
127.2	STRONGYLOIDIASIS	2																					2
013	TUBERCULOSIS - NONRESP.	1																1					2
010	TUBERCULOSIS - PRIM.																	1					1
011	TUBERCULOSIS - RESP.	2										1											3
002.0	TYPHOID	1																					1

* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
B96.8	VANCOMYCIN RES. ENTER.	4		1									1										6
		230	**15**	**3**	**15**		**22**	**1**	**10**		**23**	**2**	**11**		**10**	**1**	**9**	**50**	**30**		**2**		**434**

* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction

STD Infection Summary Report - January 2009

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	**2008**	**2009**	**2008**	**2009**
All Chlamydia Infections	655	642	655	642
All Gonorrhea Infections (including PRNG)	148	125	148	125
All Syphilis Infections	5	2	5	2
Gonorrhea & Chlamydia Co-infections	63	56	63	56
HIV	6	14	6	14

Total Number of STD Cases by Age and Gender - January 2009

	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
Chlamydia Only Cases					1		7	2	144	50	124	73	58	41	31	32	10	11	2									586
Gonorrhea Only Cases		1							8	4	12	14	7	4	3	7	3	4		2								69
Syphilis Only Cases																1		1										2
GC and CT Cases					1		1		14	6	10	10	2	2	3	5		2										56
		1			2		8	2	166	60	146	97	67	47	37	45	13	18	2	2								713
HIV									1		3	1		1	2	3		1	1		1							14

Regional STD Distribution - January 2009

Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
Case Referred to:*			*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
All Chlamydia Infections	364	28	11	10		11	7	18	3	37		10	6	10	7	32	60	26		1	1	642
All Gonorrhea Infections	68	2	3	2		1		1	1	2				3	6	4	22	9			1	125
All Syphilis Infections	2																					2
GC and CT Infections	33							1							3	1	11	7				56

* F=Federal Jurisdiction (includes First Nations and Inuit Health) P=Provincial Jurisdiction